

AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended): A backlight source disposed under a display panel, the backlight source comprising a plurality of parallel
5 U-shaped lamps or call C-shaped lamps, each of the U-shaped or C-shaped lamps having an inner surface and an outer surface and comprising a high voltage electrode and a low voltage electrode, each of the U-shaped or C-shaped lamps being bent in a reverse direction to the adjacent U-shaped or C-shaped lamps so that the high voltage electrodes
10 are disposed on two sides of the display panel, and the high voltage electrode of each of the U-shaped or C-shaped lamps adjoining the low voltage electrode of another U-shaped or C-shaped lamps.

Claim 2 (original): The backlight source of claim 1 wherein the
15 backlight source is installed in a direct-type backlight panel unit.

Claim 3 (original): The backlight source of claim 2 wherein the direct-type backlight unit comprises a diffuser disposed between the display panel and the plurality of the U-shaped lamps for scattering a
20 light source generated by the plurality of the U-shaped lamps to the display panel, a light diffuser plate disposed between the diffuser and the plurality of the U-shaped lamps for transmitting the light source to the diffuser, and a reflecting plate disposed under the plurality of the U-shaped lamps for reflecting the light source to the light diffuser plate.

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Claim 4 (original): The backlight source of claim 3 wherein the direct-type backlight panel unit further comprises a housing disposed under the reflecting plate for surrounding the reflecting plate, and a bezel for assembling the display panel and the backlight source.

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Claim 5 (original): The backlight source of claim 1 wherein the U-shaped lamp is a cold cathode fluorescent lamp (CCFL).

Claim 6 (previously presented): The backlight source of claim 1 wherein the neighboring U-shaped lamps alternately face two opposite sides of the display panel.

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Claim 7 (original): The backlight source of claim 6 wherein the inner surface of the U-shaped lamp is adjacent to the inner surface of an adjacent U-shaped lamp.

10 Claim 8 (original): The backlight source of claim 6 wherein the outer surface of the U-shaped lamp is adjacent to the outer surface of an adjacent U-shaped lamp.

Claim 9 (original): The backlight source of claim 1 wherein the
15 backlight source further comprises a power supply for providing current and a control circuit electrically connected to the power supply for driving the backlight source.

Claim 10 (original): The backlight source of claim 9 wherein the control
20 circuit comprises at least one inverter electrically connected to the high voltage electrode and the low voltage electrode of the corresponding U-shaped lamp.

Claim 11 (original): The backlight source of claim 10 wherein the
25 inverter comprises a direct current/alternating current (DC/AC) inverter, a pulse width modulation (PWM) inverter or a series resonant parallel loaded (SPRL) inverter.

Claim 12 (new): A backlight source disposed under a display panel, the
30 backlight source comprising a plurality of parallel U-shaped lamps or C-shaped lamps, each of which comprises a bending portion, a high voltage electrode at one end and a low voltage electrode at another end

of each of the U-shaped lamp or C-shaped lamp, the U-shaped or C-shaped lamps being reverse disposed side by side along a first direction so that all of the high and low voltage electrodes are positioned in at least a line along the first direction, the high voltage
5 electrode of each of the U-shaped or C-shaped lamps is adjacent to the low voltage electrode of the same U-shaped or C-shaped lamps, or the low voltage electrode of another U-shaped or C-shaped lamps along the first direction.

10 Claim 13 (new): The backlight source of claim 12 wherein the backlight source is installed in a direct-type backlight panel unit.

Claim 14 (new): The backlight source of claim 13 wherein the direct-type backlight unit comprises a diffuser disposed between the
15 display panel and the plurality of the U-shaped lamps for scattering a light source generated by the plurality of the U-shaped lamps to the display panel, a light diffuser plate disposed between the diffuser and the plurality of the U-shaped lamps for transmitting the light source to the diffuser, and a reflecting plate disposed under the plurality of the
20 U-shaped lamps for reflecting the light source to the light diffuser plate.

Claim 15 (new): The backlight source of claim 14 wherein the direct-type backlight panel unit further comprises a housing disposed under the reflecting plate for surrounding the reflecting plate, and a
25 bezel for assembling the display panel and the backlight source.

Claim 16 (new): The backlight source of claim 1 wherein each of the U-shaped or C-shaped lamps is a cold cathode fluorescent lamp (CCFL).

30 Claim 17 (new): The backlight source of claim 12, wherein each of the U-shaped or C-shaped lamps being bent in a reverse direction to the adjacent U-shaped or C-shaped lamps, so that the high and low voltage

electrodes are positioned in two lines along the first direction.

Claim 18 (new): The backlight source of claim 17 wherein each of the U-shaped or C-shaped lamps has an opening defined by its two ends and
5 bending portion, and one end of each of the U-shaped or C-shaped lamps is positioned inside the opening of one of the adjacent U-shaped or C-shaped lamps.

Claim 19 (new): The backlight source of claim 12 wherein each of the
10 high voltage electrodes is adjacent to two low voltage electrodes positioned in the line.

Claim 20 (new): The backlight source of claim 12 wherein the backlight source further comprises a power supply for providing current and a
15 control circuit electrically connected to the power supply for driving the backlight source.

Claim 21 (new): The backlight source of claim 20 wherein the control circuit comprises at least one inverter electrically connected to the high
20 voltage electrode and the low voltage electrode of the corresponding U-shaped lamp or C-shaped lamp.

Claim 22 (new): The backlight source of claim 21 wherein the inverter comprises a direct current/alternating current (DC/AC) inverter, a pulse
25 width modulation (PWM) inverter or a series resonant parallel loaded (SPRL) inverter.